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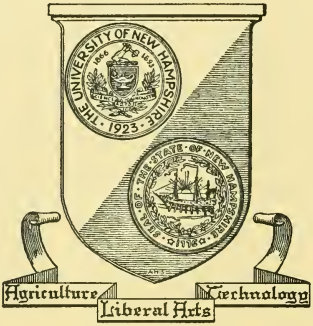

The University
of
New Hampshire

Bulletin 381 July 1950

THE UNIVERSITY OF NEW HAMPSHIRE

AGRICULTURAL EXPERIMENT STATION

Department of Agricultural and Biological Chemistry

Inspection of Commercial Feedingstuffs

Made for the

State Department of Agriculture

By H. A. DAVIS and R. E. KRAMER

The University of New Hampshire

Durham, N. H.

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feedingstuffs reported in this bulletin was made under the direction of the Honorable Perley I. Fitts, Commissioner of Agriculture. Mr. George H. Laramie, Feed Control Supervisor, and Mr. Vincent P. Peterson, Inspector, collected 522 samples of feedingstuffs which were offered for sale in the state during the year ending June, 1950. The 522 samples represent 513 brands of 85 manufacturers. All inquiries concerning the law and the registration of feedingstuffs should be addressed to the Feed Control Supervisor, State House, Concord.

REGISTRATION AND LABELING OF FEEDINGSTUFFS

Registration—The New Hampshire feedingstuffs law, Chapter 226, Revised Laws, as amended by Chapter 64, Laws of 1949, requires the registration of each brand of feedingstuff offered for sale with the Commissioner of Agriculture. Feedingstuffs are defined in the law as follows: "The terms 'concentrated commercial feedingstuff' or 'feedingstuff' as used in this chapter shall include all commercial feedingstuffs used for feeding wild animals and birds kept in captivity, domestic animals and poultry, except hay, straw, whole seed, unmixed meals made directly from the entire grains of wheat, rye, barley, oats, Indian corn, broom corn, buckwheat, and mixed grains the ingredients of which may be readily determined."

The feedingstuff is usually registered by the manufacturer or jobber whether or not he is located within or outside the state. Feedingstuffs manufactured in other states frequently pass through several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves that the brands they purchase are properly registered and the license fee is paid; otherwise, they must assume that responsibility. The Feed Control Supervisor provides forms to be filed in his office for the registration of feeds. A copy is shown on pages 4 and 5.

New Hampshire

APPLICATION FOR REGISTRATION OF COMMERCIAL FEEDINGSTUFFS

No. .....

Date .....

To the Commissioner of Agriculture, State Dept. of Agriculture, Concord, N. H.:

The undersigned hereby makes application for registration—reregistration—supplemental registration of the following commercial feeding stuffs (for the period ending December 31, 19):

(List products to be reregistered under heading REREGISTRATIONS. List under heading SUPPLEMENTAL those products added during the year.)

Attached are product data sheets which have affixed thereto a label to be used on, or attached to the containers of feeding stuffs as required by paragraph 1 of Chapter 226, Revised Laws of N. H., Stock Foods Law. I hereby certify that the label or labels contain the information required by the law.

(Enclosed is ..... in the amount of $..... covering the registration fee for feeding stuffs. Registration fee is $15.00 for each feeding stuffs.)

Address correspondence to:

Attention ..... Firm Name .....

Street and No. ..... By .....

City and State ..... Title .....

CERTIFICATE OF REGISTRATION

This certifies (that the registration fee has been paid and) that the above-listed products are this day registered under the provision of the New Hampshire Stock Foods law, and the sale is authorized when sold, offered or exposed for sale when labeled and other-wise in compliance with the law, until cancelled for cause (for the period beginning with the actual date of registration and continuing until December 31, unless the registration of any feed or feeds are cancelled).

NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE

.....
Commissioner

Date .....

INSTRUCTIONS

Application for Registration: Submit cover sheet in duplicate. One copy will be returned as your Certificate of Registration.

Product Data Sheet: One or more (8½" x 11") sheets, to which is affixed a label, or if the label has not been printed, proposed copy or printer's proof may be affixed, for each product to be registered, must accompany the application. Number the attached data sheet pages and insert the page number in parentheses on the cover sheet immediately after the name of the feed.

Brands: List these on the application cover sheets under the headings and in the order "Reregistrations" and "New Registrations." (Reregistrations are renewals from the previous year. New Registrations are brands not registered the previous year.)

Reregistrations: (Renewals of registrations) require that all cover sheets be renewed. It is not necessary to renew Product Data Sheets except with respect to information which is different from that furnished when the feeds were registered or last reregistered.

Labeling: All labeling must be in accordance with New Hampshire Stock Foods law, and all information on cover sheets and deta sheets must comply with the above law.

Labeling—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feedingstuff to furnish with each package a clearly printed statement certifying:

the number of net pounds in the package,

the name or trademark under which the article is sold,

the name of the manufacturer, shipper, or for whom the product is manufactured,

the place of business,

and a chemical analysis stating:

the minimum percentage only of crude protein,

the minimum percentage only of crude fat,

the maximum percentage only of crude fiber,

and the name of each ingredient contained in the feed.

In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved 22 general regulations which "should be adopted by State officials as far as the statutes will permit." There are no conflicts with the New Hampshire feedingstuffs law in these regulations. Manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

One sentence in the New Hampshire feedingstuff law reads as follows: " . . . . . and shall state in bold type upon the container or tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception that may result from the manufacturer's use of indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 237 official definitions of ingredients used in the compounding of feedingstuffs. These definitions are subject to frequent addition and revision. At the present time there are also 30 tentative definitions and 13 that have been proposed for future discussion. Tentative definitions are those which have received favorable consideration but have not yet been made official. A 152-page booklet containing the above three classes of definitions, 22 general regulations, three tentative regulations, 23 resolutions adopted, and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland. The manufacturer should secure a copy of this booklet and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in specifying the ingredients printed on the tag may be careless in selecting the ingredients he puts into the bag.

THE PURPOSE OF THE FEEDINGSTUFF LAW

The chief purpose of the feedingstuff law is to protect the consumer against the inferior products which doubtless would soon ap-

pear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feedingstuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feedingstuff law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer, in purchasing feed from the dealer, should make the specification that the feed delivered must comply with the New Hampshire feedingstuff law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the state feedingstuff law. He then has no recourse under the feedingstuff law if the feed which he purchases is of inferior quality. The dealer who offers for sale a feedingstuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer. The purchaser's cooperation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time secure for himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuff at his own risk.

The cost of a feedingstuff inspection includes the drawing and the analysis of the samples, and the publication and mailing of the annual bulletin. The funds from which these costs are paid are accumulated from the license fees which the manufacturer is required to pay annually on each brand of feedingstuff offered for sale within the state. Since manufacturing and distributing costs are finally paid by the consumer, the purchaser of feedingstuffs is interested in the effect of the cost of the inspection on the retail price per ton. A calculation based on the known costs of the inspection and the estimated retail value of the feedingstuffs sold annually shows that the cost of the inspection is only a fraction of a cent per 100-pound bag.

The terms used in reporting the chemical analysis of a feedingstuff required by the law are briefly defined as follows: Protein is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein are usually more expensive than the other ingredients, making protein the most important nutrient for consideration in determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types.

Fat is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such ingredients as the cereals, the seed-meals, and animal products,

the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some ether-soluble material which is not fat. When urea is present, the figure for the percentage of fat found may be high as much as two-tenths per cent, due to the slight solubility of urea in anhydrous ether. When sulphur is present, the percentage of fat found is much too high, since sulphur is readily soluble in anhydrous ether.

Fiber is composed of cellulose and related compounds. Since crude fiber has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum as in protein and fat.

It is not within the scope of this bulletin to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to Mail Service, University of New Hampshire, Durham, New Hampshire.

Folder 10	The Use of Home-grown Grains in Feeding the Dairy Herd.
Ext. Bull. 67	Turkey Production in New Hampshire, 16 pp.
Ext. Cir. 158	Feeding Chickens, 18 pp.
Ext. Cir. 250	The Home Poultry Flock, 12 pp.
Sta. Bull. 335	Protein Requirements of Chickens at Various Stages of Growth and Development II, 15 pp.
Sta. Cir. 56	Fine Versus Coarse Grit as a Feed Ingredient for Poultry, 8 pp.
Ext. Cir. 282	Dairy Calves.

While the word feedingstuff does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

Inquiries occasionally are made regarding a method of calculating the protein, fat or fiber content of a home-mixed feed. There are tables available, such as those in Morrison's book "Feeds and Feeding," which give the average chemical analysis of feed concentrates, roughages, and silages. It should be pointed out that the chemical analysis of a particular lot of an ingredient may be somewhat above or below the average figure shown in the table. This fact must be taken into consideration in fixing guarantees. The following example shows how the protein content of a feed mixture may be calculated.

Ingredient	pounds used	x per cent protein=	lbs. protein furnished by ingredient
Ground Oats	200	12.0	24
Ground Corn	400	8.0	32
Gluten Feed	300	25.0	75
Wheat Bran	400	15.0	60
Linseed Oil Meal	100	34.0	34
Salt	10		..
Total mix	1410 lbs.	contains	225 lbs. protein

$$\text{The mixture contains } \frac{225}{1410} \times 100 = 15.95\% \text{ protein.}$$

The percentage of fat or fiber may be calculated in a like manner by substituting the fat or fiber figures for those of the protein.

CONFORMITY TO THE GUARANTEES

The chemical analyses were made by the methods of the Association of Official Agricultural Chemists. Of the 522 samples analyzed, 12.2 per cent contained less than the guaranteed amount of protein; 10.0 per cent contained less than the guaranteed amount of fat, and 3.2 per cent contained crude fiber in excess of the guarantee. A comparison of these figures with those of previous years is shown in Table 1.

Resolution 16, p. 16 of the Official Publication of the Association of American Feed Control Officials, reads in part "that urea is to be used only in such limited quantities as to insure the total amount present shall not exceed 3% of the (grain) ration." No brand sampled contained urea as one of the ingredients.

All the states have feedingstuff laws and publish a report. It is common practice to indicate by different type those brands failing by an arbitrary tolerance to conform to the guarantee. There is no common agreement what this tolerance should be. In this bulletin the analytical figures one-half per cent or more below guarantee in protein, one-fourth per cent or more below guarantee in fat, and one per cent or more above guarantee in crude fiber are printed in boldface type and underlined.

TABLE I. PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1950 NOT CONFORMING TO GUARANTEES

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7
1948	3.6	3.8	2.3	3.5	13.6
1949	3.5	5.8	2.7	2.8	7.2
1950	4.9	7.3	4.9	5.1	3.2

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

The feedingstuff law requires the Agricultural Experiment Station to analyze only samples of registered feedingstuffs drawn under the direction of the Feed Control Supervisor. It does, each year, however, analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. Frequently, the reason for requesting an analysis is that the feed is suspected of causing sickness or death of livestock or poultry. While in very rare instances the feed may have caused the trouble, disease is usually found to be the cause. Often feeders, suspecting the feed, lose valuable time in the treatment of the disease by sending a sample of the feed for analysis and waiting for the report. Losses could have been reduced had a veterinarian or poultry specialist been consulted immediately and proper treatment given promptly. The most conclusive method of determining whether or not the feed is the cause of the trouble is a biological test. Such a test can be conducted on the premises of the feeder. If the feed is suspected, confine in sanitary pens two lots of healthy chicks. Give to one lot the suspected feed and to the other lot a feed known to be good. Should the chicks receiving the suspected feed become ill and the others remain healthy, there is evidence that the feed is the cause. Under such circumstances, notify the Feed Control Supervisor and an official sample will be drawn. The official sample will be analyzed to determine if the manufacturer is responsible.

The most common reason the purchaser has for asking to have the sample analyzed is to satisfy himself whether or not the feed meets its guarantee, and if it does not, to obtain evidence upon which to base a claim for shortage. The Station can assume no responsibility for the drawing of an unofficial sample but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feedingstuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat mill feed averaging 5 per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a shipment of a feed can only be had by drawing a core from several bags. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible

of the large lot from which it is taken. Because of the cost of laboratory work and materials, an analysis is not usually warranted on a sample drawn from less than a one-ton lot of feed.

A one-pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent loss of fine particles and a change in the moisture content. In order that the department may have a record of the sample analyzed, and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Crude Fiber .....

Ingredients .....

.....

.....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Abilene Alfalfa Sales Co. Abilene, Kansas							
Abilene 15% Blended Alfalfa Pellets	Laconia	15.00	15.98	1.50	1.78	33.00	29.59
Pasturettes	Laconia	17.00	15.21	1.50	1.83	27.00	28.68
Acme-Evans Co., Inc. Indianapolis, Indiana							
Acme Wheat Standard Middlings with Screenings	Laconia	14.00	15.46	3.00	4.14	9.50	6.99
E. T. Allen Co. Atlanta, Georgia							
Empire 41% Protein Cottonseed Meal Prime Quality	Keene	41.00	40.52	5.50	6.99	13.00	11.82
Allied Mills, Inc. Chicago, Illinois							
June Pasture (Alfalfa Meal and Beet Molasses)	Manchester	10.00	11.16	0.50	0.76	26.00	24.60
Sugarine 20% Dairy Feed	Keene	20.00	20.62	3.00	4.10	12.00	8.84
Sugarine 16% Dairy Ration	Contoocook	16.00	19.22	3.00	3.16	12.00	9.98
Wayne All Mash Breeder	Manchester	15.00	17.34	2.50	3.96	8.00	6.44
Wayne All Mash Egg	Manchester	15.00	15.98	2.50	4.15	8.00	6.16
Wayne All Mash Grower	Manchester	15.00	16.51	2.50	4.42	8.00	6.62
Wayne Breeder Mash	Manchester	20.00	20.84	3.00	3.92	8.00	5.88
Wayne Broiler Starter	Contoocook	24.00	26.58	3.00	3.80	4.50	4.40
Wayne Calf Starter	Manchester	16.00	16.07	3.00	3.45	11.00	6.88
Wayne Chick and Broiler Ration	Contoocook	20.00	20.66	3.00	4.58	8.00	6.17
Wayne Chick Starter	Manchester	20.00	21.72	3.00	4.77	7.00	5.80
Wayne 16% Dairy Ration	Manchester	16.00	16.90	4.00	4.17	10.00	7.06
Wayne 20% Dairy Ration	Contoocook	20.00	22.11	4.00	4.11	10.00	8.14
Wayne Dog Food Blox	Contoocook	25.00	22.33	6.00	5.07	5.00	3.90
Wayne Egg Mash	Manchester	20.00	22.42	3.00	3.97	8.00	5.80
Wayne Fitting Ration	Manchester	13.00	14.80	3.00	4.01	10.00	7.41
Wayne Flushing Mash	Manchester	20.00	22.20	3.00	4.16	7.00	4.33
Wayne Growing Mash	Manchester	18.00	20.27	2.50	4.60	8.00	6.58
Wayne Horse Feed	Manchester	9.00	9.85	2.50	2.79	12.00	5.62
Wayne Mash Layer	Keene	18.00	18.30	3.00	3.66	8.00	6.28
Wayne 26% Mash Suppliment	Manchester	26.00	27.88	2.50	3.85	10.00	7.88
Wayne 16% Milk Producer	Contoocook	16.00	17.38	3.00	5.89	12.00	8.66
Wayne 20% Milk Producer	Contoocook	20.00	20.01	3.00	3.49	12.00	9.64
Wayne Pork Maker	Manchester	14.00	15.10	3.00	4.51	8.00	6.58
Wayne Ranch Meal	Manchester	17.00	19.74	3.50	4.27	7.50	8.11
Wayne Super Broiler Feed	Manchester	22.00	23.95	3.50	4.73	4.50	4.08
Wayne Turkey Growing Mash	Manchester	20.00	20.40	2.50	4.73	8.00	6.38
E. W. Bailey & Co. Montpelier, Vermont							
Bailey's Pennant Brand Breeder Mash	Hillsboro	20.00	21.58	3.50	4.14	7.50	6.76
Bailey's Pennant Brand Calf Ration	Colebrook	15.00	17.38	3.00	4.24	8.50	7.18
Bailey's Pennant Brand Chick Starter	Hillsboro	20.00	21.06	3.50	4.07	7.00	6.90
Bailey's Pennant Brand Complete Breeder	Hillsboro	16.00	17.28	3.50	4.54	7.50	6.71

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
E. W. Bailey & Co. (Concluded)							
Bailey's Pennant Brand Complete Egg Ration	Colebrook	16.00	16.29	3.50	4.72	7.50	7.09
Bailey's Pennant Brand Complete Grower	Colebrook	15.00	16.68	3.50	3.92	7.50	7.87
Bailey's Pennant Brand 16% Dairy Ration	Colebrook	16.00	15.73	3.30	3.99	10.00	9.15
Bailey's Pennant Brand 18% Dairy Ration	Colebrook	18.00	17.54	3.50	3.73	9.00	7.75
Bailey's Pennant Brand 20% Dairy Ration	Hillsboro	20.00	20.36	3.50	3.58	8.00	7.06
Bailey's Pennant Brand Dog and Puppy Ration	Colebrook	24.00	26.49	4.00	4.75	4.00	3.16
Bailey's Pennant Brand Fitting Ration	Hillsboro	14.00	15.15	3.50	3.98	11.00	9.60
Bailey's Pennant Brand Growing Mash	Hillsboro	18.00	19.00	3.50	3.95	7.50	7.01
Bailey's Pennant Brand Horse Feed	Colebrook	10.50	12.43	3.00	3.97	9.00	7.23
Bailey's Pennant Brand Laying Mash	Hillsboro	20.00	21.05	3.50	3.93	7.50	6.87
Bailey's Pennant Brand Pasture Ration	Colebrook	14.00	14.89	3.00	4.05	14.00	13.50
Bailey's Pennant Brand Peerless 20 Dairy	Colebrook	20.00	21.58	3.00	4.23	9.00	8.02
Bailey's Pennant Brand Pig Feed	Colebrook	17.00	17.43	3.50	4.30	7.00	7.81
Bailey's Pennant Brand Stock Feed	Colebrook	9.50	11.56	3.00	3.90	13.00	12.13
Bailey's Pennant Brand Succulent Feed	Colebrook	10.00	11.69	2.00	2.98	17.00	16.97
Bailey's Pennant Brand Sulfaquinoxaline Mixture in Bailey's Pennant Brand Chick Starter	Colebrook	20.00	20.58	3.50	4.30	7.00	6.33
Bailey's Pennant Brand 32% Supplement	Colebrook	32.00	32.40	3.50	4.45	6.00	8.33
Bailey's Pennant Brand 16% Test Ration	Lebanon	16.00	16.60	3.25	3.36	9.00	6.49
Bailey's Pennant Brand Turkey Grower	Colebrook	20.00	20.09	3.50	3.73	7.50	7.22
Beacon Milling Co., Inc. Cayuga, New York							
Auburn "16"	Dover	16.00	17.03	3.00	3.82	10.00	5.59
Auburn "20"	Dover	20.00	21.45	3.00	3.90	10.00	6.72
Be-Co-Lass	Dover	11.00	12.74	1.00	2.81	16.00	10.70
Beacon "20"	Dover	20.00	21.93	3.50	3.85	9.00	7.27
Beacon Breeders Mash	Goffstown	22.00	22.38	3.50	4.73	6.50	5.92
Beacon Broiler Feed	Dover	24.00	24.43	4.00	4.74	4.50	4.28
Beacon C-C Pellets	Keene	15.00	15.59	1.00	11.07	5.00	4.36
Beacon Calf Starter	Dover	19.00	21.06	3.50	4.04	7.00	5.73
Beacon Complete Starter	Dover	25.00	25.57	3.50	4.50	4.50	3.48
Beacon Dairy Fitting	Keene	14.00	15.28	3.50	3.56	9.00	7.18
Beacon "22" Egg Mash	Goffstown	22.00	23.12	3.50	4.30	6.50	6.13
Beacon Fleshing Pellets	Goffstown	20.00	20.66	3.50	4.16	6.50	5.18
Beacon Goat Ration	Keene	16.00	19.74	3.50	3.14	10.00	7.38
Beacon "18" Growing Mash	Dover	18.00	18.08	3.50	4.22	6.25	6.60
Beacon Horse Feed	Dover	10.00	11.47	2.50	2.71	9.00	7.14
Beacon Poultry Fitting	Dover	12.00	12.92	3.00	3.01	7.50	5.96

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Beacon Milling Co., Inc. (Concluded)							
Beacon Sulfaquinoxaline with Beacon Broiler Feed	Dover	24.00	24.34	4.00	5.31	4.50	3.99
Beacon Sulfaquinoxaline with Beacon Complete Starter	Dover	25.00	26.40	3.50	4.70	4.50	3.52
Beacon Sweet "20"	Dover	20.00	21.24	3.00	3.66	9.00	7.02
Beacon Test Cow Ration	Dover	18.00	18.43	4.00	4.11	9.00	7.16
Beacon Turkey and Game Bird Fitting	Dover	10.00	10.15	3.00	3.01	9.00	5.56
Beacon Turkey and Game Bird Flushing Mash	Dover	15.00	16.12	1.00	8.62	5.00	3.99
Beacon Turkey and Game Bird Grower	Dover	24.00	24.30	3.50	4.83	6.00	5.22
Beacon Turkey and Game Bird Starter	Dover	28.00	29.24	3.50	5.10	4.50	3.95
Blatchford Calf Meal Co. Waukegan, Illinois							
Blatchford Complete Calf Ration	Salem Depot	19.50	19.66	3.00	2.81	9.50	9.36
Brown Oil & Chemical Corp. New York, New York							
34% O. P. Linseed Meal Prime Quality	Lebanon	34.00	31.77	4.50	8.23	10.00	9.16
Canadian Vegetable Oil, Ltd. Hamilton, Canada							
Soybean Oil Meal	Manchester	41.00	42.07	4.00	4.31	7.00	5.28
Car-O-Green, Inc. Kansas City, Missouri							
Car-O-Green Dehydrated Alfalfa Meal	Lancaster	17.00	17.95	1.50	2.40	27.00	26.89
Dehydrated Alfalfa Meal	Colebrook	13.00	12.34	1.50	1.74	33.00	35.31
Commander-Larabee Milling Co. Minneapolis, Minnesota							
Sunfed Wheat Standard Middling	Goffstown	15.00	16.68	4.00	5.09	9.50	7.68
Consolidated Products Co. Danville, Illinois							
Kaff-A	Lebanon	25.00	25.57	4.00	4.86	2.00	1.42
Consolidated Rendering Co. Boston, Massachusetts							
Corenco 45% Meat and Bone Scrap	Potter Place	45.00	47.01	6.00	9.51	..	..
Corenco 47% Meat and Bone Scrap	Suncook	47.00	44.72	6.00	8.79	..	..
Corenco 47% Meat and Bone Scrap	Suncook	47.00	45.09	6.00	8.49	..	..
Corenco 50% Meat and Bone Scrap	Salem Depot	50.00	47.56	6.00	9.67	..	..
Corenco 50% Meat and Bone Scrap	Milford	50.00	52.58	6.00	12.23	..	..
Corn Products Sales, Inc. New York, N. Y.							
Buffalo Corn Gluten Feed	Colebrook	23.00	23.07	1.00	1.27	9.00	8.39

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Chas. M. Cox Co. Boston, Massachusetts							
Provender	Plymouth	9.00	9.74	3.00	3.54	8.00	4.46
Wirthmore Breeder Mash	Dover	20.00	21.94	3.00	4.12	7.00	5.73
Wirthmore Calving Ration	Goffstown	14.00	15.59	4.00	4.01	11.00	9.21
Wirthmore Complete Breeder	Dover	15.00	16.46	3.00	4.28	6.00	5.02
Wirthmore Complete Egg Ration	Dover	15.00	15.28	3.00	4.08	6.00	5.32
Wirthmore Complete Growing	Dover	14.50	15.50	3.00	3.93	6.00	5.18
Wirthmore 16 Dairy Ration	Penacook	16.00	16.55	3.50	3.97	9.00	6.45
Wirthmore 16 Dairy Ration	Hillsboro	16.00	17.34	3.50	3.75	9.00	7.18
Wirthmore 20 Dairy Ration	Lancaster	20.00	20.80	3.50	3.51	8.00	6.99
Wirthmore Dog Food	Lancaster	25.00	26.14	4.00	5.75	6.00	3.21
Wirthmore 14 Fitting Ration	Dover	14.00	15.45	4.00	4.18	9.00	7.14
Wirthmore Fodder Greens	Goffstown	9.00	9.37	2.00	2.01	18.00	16.92
Wirthmore Growing Mash	Dover	18.00	18.47	3.00	3.86	7.00	5.90
Wirthmore Horse Feed	Dover	10.00	11.52	3.25	3.67	9.00	7.66
Wirthmore Laying Mash	Dover	20.00	20.48	3.00	3.73	7.00	5.86
Wirthmore Mash with Sulfaguanidine	Plymouth	20.00	21.41	3.00	3.54	6.50	4.55
Wirthmore Pig and Hog Feed	Hillsboro	17.00	16.35	4.00	4.33	8.00	6.92
Wirthmore Rabbit Pellets	Plymouth	15.00	16.03	4.00	4.12	12.00	9.42
Wirthmore 16 Record Ration	Dover	16.00	17.12	3.50	4.13	9.00	7.38
Wirthmore Sheep and Goat Ration	Plymouth	16.00	18.04	4.00	4.26	8.00	6.33
Wirthmore Standard 16 Dairy Ration	Lisbon	16.00	17.47	3.00	4.17	10.00	9.70
Wirthmore Starter and Broiler	Dover	20.00	20.40	3.00	3.66	6.50	5.62
Wirthmore Stock Feed	Dover	10.00	11.20	3.00	4.26	11.00	9.94
Wirthmore Sulfaquinoxaline Mixture in Wirthmore Complete Growing Ration	Plymouth	14.50	15.24	3.00	3.83	6.00	4.61
Wirthmore Sulfaquinoxaline Mixture in Wirthmore Starter and Broiler Ration	Plymouth	20.00	20.53	3.00	2.93	6.50	4.98
Wirthmore Super Pellets	Dover	20.00	21.36	3.00	3.95	8.00	5.92
Wirthmore Turkey Growing	Dover	20.00	22.50	3.00	3.77	7.50	5.59
Wirthmore Twin-Mix Calf Ration	Dover	17.00	19.00	4.00	3.92	8.00	6.70
Dailey Mills, Inc. Olean, New York							
Double Diamond Body Builder	Derry	14.00	14.05	4.00	3.56	7.00	6.57
Double Diamond Broiler	Derry	18.00	18.34	3.50	5.86	7.00	4.92
Double Diamond Complete All Mash Grower	Derry	15.00	16.07	3.50	4.27	7.00	4.74
Double Diamond Complete Egg Producer	Derry	15.00	17.90	3.00	5.12	8.00	6.94
Double Diamond Revitalizer	Derry	13.00	19.14	3.50	4.80	4.00	3.09
Double Diamond 20% Test Ration	Derry	20.00	18.45	3.75	3.85	9.00	7.56
Dawson County Feed Products, Inc. Lexington, Nebraska							
Square Fare 17% Dehydrated Alfalfa Meal	Manchester	17.00	15.85	1.50	2.10	27.00	30.82
Delaware Mills, Inc. Deposit, New York							
Delaware Breeder Mash	Farmington	21.00	22.02	3.00	4.26	7.00	5.48

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Delaware Mills, Inc. (Concluded)							
Delaware Chick Starter	Farmington	20.00	20.88	3.00	4.32	6.00	4.83
Delaware Complete Growing Mash	Farmington	15.00	18.04	3.00	3.70	7.00	6.08
Delaware Complete Laying Mash	Farmington	15.00	16.99	3.00	4.30	7.00	5.66
Delaware Fitting Ration	Farmington	14.00	14.06	3.00	4.44	10.00	8.66
Delaware Fleshing Pellets	Farmington	20.00	20.70	3.50	3.64	7.00	5.74
Delaware Growing Mash	Farmington	18.00	19.96	3.00	4.38	6.50	6.00
Delaware Laying Mash	Farmington	21.00	21.62	3.00	3.92	7.00	5.88
Delaware Milk Flushing Mash	Farmington	11.00	12.52	2.00	2.84	5.00	4.02
Delaware Pig and Hog Feed	Farmington	16.00	17.90	4.00	4.65	8.50	6.95
Delaware Poultry Fitting Ration	Farmington	12.00	14.45	3.00	2.82	8.00	7.00
Delaware Pulpolass	Farmington	11.00	12.21	2.00	3.41	16.00	11.20
Delaware Rabbit Pellets	Farmington	14.00	17.82	3.00	3.88	20.00	9.62
Delaware Starter and Broiler Ration	Farmington	20.00	20.49	3.00	4.28	6.00	4.82
Delaware Stock Feed	Farmington	9.00	10.15	3.00	3.39	15.00	11.52
Delaware Sulfaquinoxaline Mixture in Delaware Chick Starter	Farmington	20.00	21.14	3.00	4.13	6.00	4.62
Delaware Sulfaquinoxaline Mixture in Delaware Growing Mash	Farmington	18.00	20.62	3.00	3.81	6.50	5.55
Delaware Sulfaquinoxaline Mixture in Delaware Starter and Broiler Ration	Farmington	20.00	22.72	3.00	4.23	6.00	5.10
Delquinox in Delaware Starter and Broiler Ration	Farmington	20.00	21.05	3.00	3.78	6.00	5.02
Indian Sweet 18% Dairy Feed	Farmington	18.00	20.36	3.00	4.91	12.00	7.58
Dietrich & Gambrill, Inc. Frederick, Maryland							
All Purpose Mash	Greenland	15.00	19.83	3.50	3.96	7.00	6.40
D & G Growing and Fitting Ration	Greenland	15.00	15.80	3.50	3.76	10.00	5.75
Frederick 20% Dairy	Greenland	20.00	20.27	3.50	4.02	12.00	8.56
Pen Mar 20% Dairy	Greenland	20.00	20.88	3.50	3.89	10.00	7.88
Pen Mar Horse and Stock Feed	Greenland	10.00	11.42	3.00	3.74	12.00	6.46
Pig and Hog Meal	Greenland	18.00	22.55	3.50	3.88	8.00	5.96
Dodge Grain Co. Methuen, Massachusetts							
Dodge Starting-Growing Mash	Salem Depot	16.00	17.19	3.00	4.25	9.00	7.69
Eastern States Farmers' Exchange, Inc. West Springfield, Massachusetts							
Eastern States All Mash Developer	Dover	15.50	17.12	3.00	3.34	5.00	3.95
Eastern States Developer	Dover	20.00	21.32	2.50	3.20	5.00	4.88
Eastern States Fulpail	Dover	20.00	21.36	3.50	4.23	8.50	7.76
Eastern States Pacemaker—W S	Dover	20.00	20.84	3.00	3.72	4.00	2.69
Eastern States Producer	Dover	20.00	22.15	3.00	3.05	5.00	4.35
Eastern States Turkey-Grower Pellets	Dover	20.00	20.62	2.50	3.48	4.50	3.47
B. A. Eckhart Milling Co. Chicago, Illinois							
Standard Wheat Middlings with Ground Recleaned Wheat Screenings	Manchester	15.00	16.03	4.00	4.42	9.50	5.26

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Elm City Grain Co. **Keene, New Hampshire**							
Elm Tree All Mash Laying	Keene	16.00	17.69	3.50	4.37	8.00	6.87
Elm Tree Broiler Mash	Keene	22.00	21.71	3.50	4.10	7.50	5.66
Elm Tree Dairy Feed	Keene	18.00	20.08	3.50	3.95	11.00	8.63
Elm Tree 14% Fitting Ration	Keene	14.00	14.76	3.50	3.65	11.00	7.64
Elm Tree Laying Mash	Keene	19.00	20.62	3.50	4.04	9.00	7.19
Elm Tree Pig and Hog Feed	Keene	14.00	15.06	4.00	3.70	10.00	6.16
Elmore Milling Co., Inc. **Oneonta, New York**							
Elmore Bull Feed	Portsmouth	13.00	17.56	3.50	2.76	9.00	7.69
Elmore Chixsaver	Concord	20.00	19.85	4.00	4.01	6.00	4.10
Elmore Dry and Freshening Ration	Concord	12.00	15.59	3.25	3.65	9.00	7.66
Elmore Egg Mash	Concord	20.00	22.85	4.00	4.40	8.00	5.33
Elmore Grand Champion Ration	Concord	15.00	17.42	3.50	3.62	9.00	8.79
Elmore Growing Mash	Concord	18.00	19.00	3.50	4.34	8.00	5.42
Elmore Horse Feed	Lancaster	9.00	12.43	2.50	3.68	11.00	6.40
Elmore Milk Grains "Sixteen"	Lancaster	16.00	18.56	4.50	3.67	9.00	7.18
Elmore Poultry Fitting Ration	Concord	12.00	11.21	3.00	2.41	10.00	6.19
Elmore Sulfaquinoxaline Mixture in Elmore Super Broiler Ration	Concord	20.00	19.79	4.00	4.06	4.50	3.84
Elmore Test Ration	Concord	18.00	20.27	4.00	4.13	9.00	5.87
Elmore Turkey Breeders Mash	Portsmouth	20.00	20.53	4.00	4.49	8.00	5.64
Elmore Turkey Finisher (Fattener)	Portsmouth	17.00	20.27	4.00	4.79	8.00	7.19
Elmore Turkey Fitting Ration	Portsmouth	12.00	11.58	3.00	2.62	10.00	7.89
Erie Alfalfa Mills, Inc. **Erie, Michigan**							
Leafy Eric Brand Dehydrated Alfalfa Meal	Milford	17.00	18.12	1.50	2.75	28.00	25.86
J. W. Eshelman & Sons **Lancaster, Pennsylvania**							
Eshelman Red Rose Breeder Mash	Keene	20.00	24.12	3.50	3.67	7.00	5.91
Eshelman Red Rose 16 Dairy Feed	Keene	16.00	17.95	3.50	4.02	11.00	8.78
Eshelman Red Rose Dog and Puppy Food	Keene	23.00	25.52	4.75	4.90	4.00	3.45
Eshelman Red Rose Fitting Ration	Keene	12.00	13.97	3.50	3.58	7.00	6.99
Eshelman Red Rose 40% Hog Supplement	Keene	40.00	42.90	3.50	3.84	10.00	5.36
Eshelman Red Rose Horse Feed	Keene	9.00	9.94	3.00	3.48	10.00	5.80
Eshelman Red Rose Laying Mash	Keene	20.00	22.42	3.50	3.88	8.00	6.12
Eshelman Red Rose Rabbit Feed Pellets	Keene	14.00	15.15	3.00	3.59	12.00	8.80
Eshelman S. O. S.	Keene	11.00	15.09	2.00	2.86	15.00	16.63
Farmers Feed & Supply Co. **Lebanon, New Hampshire**							
Tri-Country 18% Dairy Ration	Lebanon	18.00	19.57	3.50	4.56	10.00	7.95
Federal Mills, Inc. **Lockport, New York**							
Lucky Hard Wheat Bran	Colebrook	14.00	14.41	3.50	3.62	12.00	9.35

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ferneau Grain Co. Blanchester, Ohio							
Corn Distillers Dried Grains	Lebanon	26.00	26.27	8.00	10.21	14.00	8.20
Fowler Brothers Suncook, New Hampshire							
Sun Valley All Mash Breeder	Suncook	16.00	16.50	4.00	4.22	7.50	6.22
Sun Valley Breeder Mash	Suncook	20.00	19.56	4.00	4.41	7.50	6.11
Sun Valley Chick Starter	Suncook	20.00	20.11	4.00	4.24	7.00	5.46
Sun Valley Dairy Ration	Suncook	16.00	16.51	3.50	3.71	10.00	7.26
Sun Valley Growing Mash	Suncook	18.00	18.25	4.00	3.74	7.50	6.92
Sun Valley Pig and Hog Feed	Suncook	14.00	14.06	3.50	3.77	10.00	8.13
General Mills, Inc. Detroit, Michigan							
Dried Beet Pulp	Farmington	7.00	9.24	0.30	0.82	22.50	20.90
Larro Broiler Feed	Laconia	20.00	21.19	3.50	3.29	5.50	4.66
Larro Chick Builder	Laconia	20.00	19.90	3.50	3.77	7.00	5.82
Larro 16% Dairy Feed	Laconia	16.00	15.74	3.00	3.74	12.00	8.79
Larro 20% Dairy Feed	Laconia	20.00	20.14	3.00	3.62	12.00	9.28
Larro Egg Mash	Laconia	20.00	19.89	3.50	3.88	8.00	7.15
Larro Green Pellets for Rabbits ..	Laconia	15.00	15.54	2.00	2.96	19.00	20.27
Larro Poultry Breeder Mash	Laconia	20.00	20.22	3.50	4.02	8.00	6.61
Larro Sow and Pig Builder	Laconia	17.50	17.78	3.50	3.74	8.00	6.19
Washburn's Gold Medal Hard Wheat Adrian Red Dog	Nashua	16.00	15.85	3.50	3.28	4.00	1.72
Washburn's Gold Medal Hard Wheat Standard Middlings and Ground Wheat Screenings	Lancaster	15.00	15.54	4.00	4.74	9.50	7.60
Gloucester By-Products, Inc. Gloucester, Massachusetts							
Globpro Brand Fish Meal	Milford	68.00	60.97	5.00	7.25	2.00	0.22
Gooch Milling and Elevator Co. Lincoln, Nebraska							
Wheat Bran with Wheat Screenings not Exceeding Mill Run ...	Lebanon	15.00	16.33	3.50	4.20	11.00	9.09
D. H. Grandin Milling Co. Jamestown, New York							
Grandin's All Mash Layer	Keene	15.00	15.63	3.00	3.45	8.00	6.28
Grandin's 14 Fitting Ration	Keene	14.00	16.33	3.50	3.51	10.00	7.56
Grandin's Horse Feed	Keene	9.50	10.60	3.50	3.55	11.00	6.66
Grandin's Laying Mash	Keene	20.00	20.10	3.00	3.72	8.00	7.75
Grandin's 16 Milk Maker	Keene	16.00	15.85	3.50	4.39	10.00	8.48
Grandin's 20 Milk Maker	Lancaster	20.00	18.98	3.50	4.83	10.00	8.72
Grandin's Pig and Hog Feed	Keene	18.00	17.72	3.50	3.37	10.00	4.45
Grandin's Start-to-Finish Mash ..	Lancaster	20.00	20.70	3.00	3.74	8.00	6.87
Grandin's Super Starter and Broiler Ration	Keene	20.00	21.06	3.00	3.51	4.50	3.50
Grandin's 18 Test Ration	Keene	18.00	19.13	3.50	4.40	10.00	8.76
Hales & Hunter Co. Chicago, Illinois							
Pioneer Calf Starter	Lebanon	18.00	19.75	2.50	4.02	8.50	5.18
Pioneer 15 Dairy	Lebanon	15.00	18.04	3.50	3.22	9.00	6.34

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Hales & Hunter Co. (Concluded)							
Pioneer 18 Dairy	Lebanon	18.00	18.26	3.50	3.04	9.00	5.95
Pioneer Dairy Sup-Pel	Lebanon	18.00	23.07	3.00	4.74	9.00	7.20
Pioneer Dry and Freshening	Lebanon	12.00	13.18	2.50	3.54	10.00	7.02
Pioneer Horse Feed	Lebanon	9.00	9.81	2.50	3.46	10.00	5.63
Pioneer Pelleted Flaked 15 Dairy	Lebanon	15.00	17.16	3.50	3.09	9.00	5.69
Pioneer Pelleted Flaked 18 Dairy	Lebanon	18.00	18.61	3.50	2.98	9.00	5.25
Red Comb Chick Starter	Lebanon	20.00	20.88	3.00	3.56	6.00	4.51
Red Comb Egg Mash	Lebanon	20.00	20.14	3.00	3.75	7.00	6.02
Red Comb Growing Mash	Lebanon	17.00	18.30	3.00	3.73	7.00	5.61
Red Comb Turkey Grower	Lebanon	21.00	21.32	3.00	4.13	7.00	5.27
Henkel Flour Mills Detroit, Michigan							
Henkel's Wheat Bran with Ground Wheat Screenings	Manchester	12.00	14.40	2.50	4.08	12.00	8.07
Henkel's Wheat Standard Middlings with Ground Wheat Screenings	Nashua	14.00	15.32	3.00	4.35	9.50	6.20
E. C. & W. L. Hopkins, Inc. Greenfield, New Hampshire							
Granite State Breeder Mash	Hillsboro	20.00	22.42	3.00	4.20	7.50	6.71
Granite State Complete Mash	Hillsboro	15.00	18.09	3.00	4.54	7.00	6.56
Granite State Egg Mash	Hillsboro	20.00	20.44	4.00	4.14	7.50	5.22
Granite State Fitting Ration	Hillsboro	14.00	15.68	3.00	4.32	8.00	6.81
Granite State Growing Mash	Hillsboro	19.00	20.40	3.00	4.52	7.00	7.91
Granite State Hog Ration	Hillsboro	17.50	18.65	3.00	4.01	7.00	5.83
Granite State Stock Feed	Hillsboro	8.00	7.22	3.00	3.58	10.00	5.92
Page 16% Dairy	Hillsboro	16.00	18.08	4.00	4.16	9.00	8.35
Page 20% Dairy	Hillsboro	20.00	21.68	4.00	4.08	9.00	7.84
Provender	Hillsboro	11.00	10.42	4.00	4.01	10.00	5.66
Humphreys-Godwin Co. Memphis, Tennessee							
Dixie Brand 41% Cottonseed Meal	Colebrook	41.00	40.22	4.00	6.21	12.00	11.87
International Milling Co. Buffalo, New York							
Blackhawk Wheat Red Dog	Farmington	15.00	19.30	2.00	4.34	4.00	3.82
Blackhawk Wheat Standard Middlings	Goffstown	15.00	15.50	3.00	4.86	9.50	6.63
Henkel's Wheat Bran	Derry	13.50	15.72	2.50	4.42	12.00	9.29
Ralph P. Johnson & Son Potter Place, New Hampshire							
Johnson's Chick Starter	Potter Place	16.00	19.30	3.00	4.77	10.00	6.30
Johnson's Complete Laying Mash	Potter Place	15.00	16.38	3.00	4.03	8.00	5.90
Johnson's Dairy Feed	Potter Place	16.00	17.86	3.00	3.01	9.00	6.84
Johnson's Growing Mash	Potter Place	14.00	16.12	3.00	4.15	9.00	6.11
Johnson's Laying Mash	Potter Place	18.00	19.92	4.00	4.80	8.00	6.12
Johnson's Pig and Hog Feed	Potter Place	15.00	17.17	2.00	3.99	7.00	6.15
I. S. Joseph Co., Inc. Minneapolis, Minnesota							
Molasses Dried Beet Pulp	Hillsboro	7.00	8.18	0.25	0.26	18.00	13.56

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein Guaranteed*	Protein Found	Fat Guaranteed*	Fat Found	Crude Fiber Guaranteed*	Crude Fiber Found
Kasco Mills, Inc. Waverly, New York							
Kasco All Mash Grower Ration ..	Nashua	15.00	18.91	3.00	3.80	7.00	4.26
Kasco All Mash Layer Ration	Nashua	15.00	16.07	3.00	3.61	7.50	4.33
Kasco All Mash Laying and Breeding Ration	Nashua	15.00	16.42	3.00	3.69	7.50	4.65
Kasco Beatsall Milk Grains 16% .	Nashua	16.00	17.04	3.50	4.62	10.00	7.27
Kasco Beatsall Milk Grains 20% .	Nashua	20.00	20.58	3.50	4.01	10.00	7.33
Kasco Body Builder	Nashua	15.00	15.54	3.00	**2.06**	7.00	4.26
Kasco Broiler-Starter Ration	Nashua	20.00	21.37	3.00	3.76	5.00	4.28
Kasco Chick Starter	Nashua	20.00	20.92	3.00	3.71	5.50	4.25
Kasco Complete Broiler-Grower ..	Nashua	18.00	19.62	3.00	3.72	4.50	4.28
Kasco Complete Dog Ration	Nashua	25.00	26.70	7.00	9.16	4.00	3.27
Kasco Fitting Ration	Nashua	14.00	14.80	3.50	4.02	10.00	6.95
Kasco Gro-Calf	Nashua	20.00	**18.85**	3.00	3.36	7.50	6.55
Kasco Growing Mash	Nashua	18.00	19.49	3.00	3.90	7.50	5.09
Kasco Horse Feed	Nashua	10.00	9.76	2.50	3.26	12.00	5.70
Kasco Laying and Breeding Mash	Nashua	20.00	20.84	3.00	3.88	7.50	6.07
Kasco Pig and Hog Feed	Nashua	20.00	22.07	3.50	4.01	6.00	5.88
Kasco Turkey Grower	Nashua	20.00	21.54	3.00	3.78	8.00	5.93
Keystone Dehydrators Nazareth, Pennsylvania							
Keystone Super-Green Dehydrated Alfalfa Meal	Farmington	17.00	16.84	2.00	2.01	30.00	28.72
H. C. Knoke & Co. Chicago, Illinois							
Barley Feed	Manchester	12.00	**10.60**	3.00	2.82	16.00	15.15
Larabee Flour Mills Co. Kansas City, Missouri							
Sunfed Winter Wheat Bran with Ground Wheat Screenings	Hillsboro	15.00	15.37	3.50	4.32	11.00	8.02
Maritime Milling Co., Inc. Buffalo, New York							
B-B Dry and Fresh Cow Fitting Ration	Lisbon	13.00	15.37	4.00	3.83	10.00	8.30
B-B Pure Corn and Oats Half and Half Ground	Lisbon	10.00	11.29	3.00	3.57	7.00	4.95
Hi Test Dairy Feed 20% Pro	Lisbon	20.00	21.62	3.50	3.51	12.00	9.75
Marmico 16% Protein Dairy Feed with Molasses	Lisbon	16.00	17.34	3.00	4.17	12.00	10.54
Sweetened B-B "16" Dairy Ration	Lisbon	16.00	17.12	4.00	4.01	9.00	7.67
Sweetened B-B "20" Dairy Ration	Lisbon	20.00	**19.40**	4.00	4.16	9.00	7.69
Manitoba Sugar Co., Ltd. Winnipeg, Manitoba							
Dried Molasses-Beet Pulp	Hillsboro	7.00	10.59	0.30	0.49	20.00	15.16
McCabe Grain Co., Ltd. Saskatoon, Ontario							
Ground Sweet Clover and Alfalfa Screenings	Manchester	17.00	25.17	1.50	5.41	29.00	12.90

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Merrimack Farmers' Exchange, Inc. **Concord, New Hampshire**							
Merrimack All Mash	Manchester	15.00	15.68	3.50	4.35	7.00	6.08
Merrimack All Mash	Concord	15.00	16.60	3.50	4.35	7.00	6.54
Merrimack Breeder Mash	Goffstown	19.50	19.53	4.50	4.58	7.00	5.62
Merrimack Calf Growing Ration	Goffstown	12.00	13.36	3.00	3.50	12.00	7.37
Merrimack Calf Starter	Concord	18.00	20.08	4.00	3.76	7.00	6.30
Merrimack Complete Grower	Plymouth	15.00	15.98	3.00	3.69	8.00	5.84
Merrimack Complete Layer	Pittsfield	15.00	15.24	3.50	4.25	7.00	7.10
Merrimack 16% Dairy Ration	Laconia	16.00	16.20	3.50	4.03	9.00	7.94
Merrimack 16% Dairy Ration	Concord	16.00	17.60	3.50	4.42	9.00	7.47
Merrimack 20% Dairy Ration	Manchester	20.00	20.53	3.50	3.96	8.50	8.49
Merrimack Fast-Gro Broiler	Pittsfield	22.00	22.33	4.00	3.70	4.00	3.16
Merrimack 14% Fitting Ration	Concord	14.00	15.85	3.50	3.77	9.00	7.00
Merrimack 14% Fitting Ration	Concord	14.00	16.42	3.50	4.10	9.00	6.61
Merrimack 14% Fitting Ration	Manchester	14.00	16.55	3.50	3.89	9.00	6.22
Merrimack Fodder Ration	Goffstown	10.00	9.40	2.00	1.75	20.00	17.48
Merrimack Growing Mash	Laconia	17.00	17.04	3.50	4.02	8.00	6.70
Merrimack Horse Feed	Goffstown	11.00	12.39	3.50	3.95	10.00	6.23
Merrimack Laying Mash	Laconia	19.00	19.01	3.50	3.88	7.00	6.41
Merrimack Pig Feed	Laconia	17.00	17.95	3.00	4.37	7.00	6.20
Merrimack Provender	Goffstown	9.00	9.93	4.00	3.60	10.00	5.20
Merrimack Rabbit Pellets	Goffstown	14.00	19.90	4.00	4.03	8.50	5.89
Merrimack 18% Special Dairy Ration	Pittsfield	18.00	20.62	3.50	3.57	8.50	6.55
Merrimack Stock Feed	Plymouth	9.00	10.55	2.50	3.08	12.00	9.85
Merrimack Sulfaquinoxaline Mixture in Merrimack Fast-Gro Broiler	Goffstown	22.00	22.03	4.00	3.74	4.00	3.43
Sweetened Oat Feed	Pittsfield	3.00	3.59	1.00	1.05	32.50	26.31
Sweetened Oat Feed	Manchester	3.00	3.80	1.00	0.88	32.50	26.86
George Q. Moon & Co., Inc. **Binghamton, New York**							
Bulky Cow Feed	Salem Depot	11.00	11.99	2.00	2.76	16.00	15.34
Moon's Fitting Ration	Salem Depot	13.00	14.63	4.00	3.75	9.00	6.97
Moon's Growing Mash	Salem Depot	18.00	21.94	3.50	3.59	7.00	6.83
Moon's Hog Feed	Salem Depot	13.00	14.45	3.00	4.01	12.00	8.94
Moon's Horse Feed with Molasses	Salem Depot	9.00	10.98	1.50	3.28	10.00	6.84
Moon's Rabbit Pellets	Salem Depot	15.00	16.50	2.50	3.73	10.00	11.78
Moon's Super Broiler Ration	Salem Depot	20.00	20.18	3.00	3.64	4.50	2.90
N. E. Complete Laying Mash	Salem Depot	16.00	16.81	3.00	4.26	9.00	7.72
Special A 16% Dairy Ration	Salem Depot	16.00	17.33	4.00	4.02	10.00	6.95
Special A 20% Dairy Ration	Salem Depot	20.00	20.88	4.00	3.72	10.00	7.06
U. S. 20% Dairy Ration	Salem Depot	20.00	20.01	3.00	2.84	12.00	9.34
Mount Vernon Milling Co. **Mount Vernon, Indiana**							
Poco Hominy Feed	Lebanon	10.00	10.55	5.50	6.70	6.00	4.26
National Alfalfa Dehydrating Milling Co. **Lamar, Colorado**							
Alfalfa Meal	Lancaster	13.00	14.80	1.00	1.96	33.00	31.42
National Biscuit Co. **Toledo, Ohio**							
Pure Wheat Bran	Hillsboro	14.00	14.10	3.00	4.12	10.00	9.34

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
National Distillers Products Corp.							
New York, New York							
Produlac Brand Dried Corn Distillers Grains with Solubles	Potter Place	25.00	27.23	8.00	6.33	9.00	6.46
Nebraska Farm Products, Inc.							
Cozad, Nebraska							
Emerald Brand 15% Blended Dehydrated and Suncured Alfalfa Dairy Pellets	Plymouth	15.00	13.95	1.50	1.36	30.00	33.04
Neumond Co.							
St. Louis, Missouri							
Neumond's 17% Dehydrated Alfalfa Meal	Suncook	17.00	19.30	1.50	2.37	27.00	24.94
New England Grain Co.							
Portland, Maine							
New England Egg Mash	Portsmouth	20.00	20.53	4.00	5.09	8.00	7.06
New England Milkway 20% Dairy Feed	Portsmouth	20.00	21.06	4.00	3.80	10.00	9.08
New England Sweetened Stock Feed	Portsmouth	9.00	12.70	3.50	3.79	12.00	11.40
New England 18% Test Ration	Portsmouth	18.00	19.09	4.00	3.87	10.00	8.97
Ogden Grain Co.							
Utica, New York							
Biddy Mash	Derry	20.00	21.40	4.00	4.48	10.00	8.56
Cloverbloom Dairy Feed	Derry	20.00	21.41	3.50	4.02	10.00	8.11
Ogden Complete Pellets	Derry	16.00	16.82	3.00	4.56	9.00	10.42
Ogden Complete Starter-Grower-Layer Breeder	Derry	16.00	16.88	4.00	4.85	10.00	8.13
Ogden Corn and Oats	Derry	9.00	13.35	3.00	2.96	8.00	7.70
Ogden 16% Dairy Feed	Derry	16.00	16.99	4.00	3.37	8.00	8.30
Ogden Fitting Ration	Derry	12.00	14.80	4.00	4.62	10.00	8.01
Ogden Growing Mash	Derry	18.00	19.13	4.00	4.64	9.00	7.78
Ogden Horse Feed	Derry	10.00	13.00	3.00	3.48	9.00	7.16
Ogden Layer and Breeder	Goffstown	20.00	20.10	4.00	4.20	9.00	7.54
Ogden 22% Pellets	Derry	22.00	21.33	4.00	4.68	9.00	8.06
Ogden Poultry and Turkey Fitting Ration	Goffstown	10.00	9.90	3.00	3.01	12.00	4.80
Ogden Rabbit Pellets	Goffstown	16.50	16.99	3.00	4.01	13.00	12.01
Ogden Starter and Broiler Ration	Derry	20.00	20.44	4.00	4.30	9.00	6.44
Oswego Soy Products Corp.							
Oswego, New York							
Soybean Oil Meal Toasted-Extracted	Milford	44.00	46.53	0.50	0.62	7.00	5.88
Pabst Brewing Co.							
Peoria, Illinois							
Pabst Hominy Feed	Goffstown	10.00	11.68	5.00	5.09	6.00	4.80
Park & Pollard Co.							
Buffalo, New York							
Corn and Oats Half and Half	Colebrook	10.00	10.33	3.00	3.81	8.00	5.81

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Park & Pollard Co. (Concluded)							
Doublex 20% Dairy Ration	Colebrook	20.00	21.76	3.00	3.64	12.00	7.82
Lay or Bust All Mash Breeder	Plymouth	15.00	15.90	2.50	3.52	7.00	4.79
Lay or Bust All Mash Grower	Hillsboro	14.50	15.94	2.50	3.42	7.00	5.14
Lay or Bust All Mash Layer	Hillsboro	15.00	18.91	2.50	3.20	7.00	5.14
Lay or Bust Breeder Mash Pellets	Manchester	20.00	21.94	2.50	3.68	7.50	4.73
Lay or Bust Broiler Mash	Manchester	20.00	20.70	2.50	3.39	5.50	4.03
Lay or Bust Chick Starter	Hillsboro	20.00	21.93	2.50	3.55	6.00	4.28
Lay or Bust Egg Mash	Manchester	20.00	22.02	2.50	3.32	7.50	5.04
Lay or Bust Fleshing Pellets	Hillsboro	15.00	17.99	2.50	4.23	6.50	4.63
Lay or Bust Growing Feed	Salem Depot	18.00	18.78	2.50	3.51	7.50	5.98
Lay or Bust Growing Pellets	Manchester	18.00	**15.92**	2.50	3.67	7.50	4.45
Lay or Bust Hi-Valu Scratch Pellets	Colebrook	12.00	13.92	2.50	3.62	6.50	4.88
Lay or Bust Laying Pellets	Manchester	20.00	19.72	2.50	3.55	7.50	4.85
Lay or Bust Poultry Fitting Ration	Lancaster	14.00	13.55	2.50	3.21	9.50	6.43
Lay or Bust Turkey Grower	Manchester	20.00	20.10	2.50	3.63	7.00	4.98
Lay or Bust Turkey Starter	Lancaster	25.00	27.32	2.50	3.67	6.50	6.15
Milk Maid Bulky Sweet Dairy	Hillsboro	12.00	14.14	2.50	3.65	14.00	11.28
Milk Maid Calf Meal	Lebanon	20.00	26.05	3.50	**3.23**	7.00	5.20
Milk Maid Calf Starter Mix	Colebrook	19.00	20.01	3.50	**3.12**	8.00	6.16
Milk Maid Calf Starter Pellets	Colebrook	22.00	28.20	3.50	**3.18**	7.00	6.05
Milk Maid 32% Dairy Mix	Lancaster	32.00	**30.52**	2.50	3.81	9.00	7.15
Milk Maid 16% Dairy Ration	Manchester	16.00	19.00	3.50	**3.01**	10.00	7.39
Milk Maid 20% Dairy Ration	Manchester	20.00	**18.78**	3.50	**3.10**	10.00	7.02
Milk Maid 24% Dairy Ration	Lancaster	24.00	**23.18**	3.50	3.95	10.00	7.45
Milk Maid Fitting Ration	Manchester	14.00	14.67	3.00	3.10	9.00	6.10
Milk Maid Goat Feed	Lebanon	16.00	17.04	3.00	3.90	9.00	6.77
Milk Maid Test Cow Ration	Hillsboro	18.00	19.70	4.00	4.55	9.00	6.54
Park & Pollard Dairy Molasses Mix	Lebanon	16.00	18.12	2.50	3.21	12.00	10.21
Park & Pollard Go-Tu-It-Pig and Hog Ration	Colebrook	15.00	18.96	2.50	3.93	8.00	5.79
Park & Pollard Pasture Ration	Manchester	16.00	17.95	3.00	3.31	10.50	7.92
Park & Pollard Rabbit Pellets	Lebanon	14.00	16.03	2.50	4.09	12.00	5.81
Park & Pollard Stock Feed	Colebrook	9.00	10.46	2.00	3.64	12.00	11.46
Park & Pollard Sulfaquinoxaline Mixture in Hi-Power Broiler Ration	Lebanon	20.00	21.63	3.00	3.85	3.80	3.79
Special Milk Maid 20% Ration	Colebrook	20.00	20.09	3.50	4.38	10.00	7.13
Sulfaquinoxaline Mixture in Lay or Bust Chick Starter	Plymouth	20.00	20.27	2.50	3.42	6.00	3.71
Sulfaquinoxaline Mixture in Lay or Bust Growing Feed	Plymouth	18.00	17.69	2.50	4.34	7.50	4.97
Yankee Horse Feed	Manchester	10.00	11.78	2.50	3.90	10.00	7.00
Pasco Packing Co. Dade City, Florida							
Sugar Sweet Citrus Meal	Hillsboro	6.00	6.09	2.75	2.85	14.00	12.29
Pierce Grain Corp. Buffalo, New York							
18 P.G Dairy Ration	Colebrook	18.00	21.32	3.50	3.36	11.00	8.69
16 Reliance Dairy Ration	Colebrook	16.00	16.68	4.00	4.28	9.00	6.54
20 Reliance Dairy Ration	Colebrook	20.00	20.97	4.00	4.18	9.00	6.49

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Pillsbury Mills, Inc. Minneapolis, Minnesota							
Pillsbury's XX Dairy	Berlin	16.00	18.04	4.00	4.39	4.00	3.21
Pillsbury's Hard Wheat A Middlings	Berlin	16.00	17.64	4.00	4.55	6.00	4.04
Pillsbury's Hard Wheat Bran with Ground Wheat Screenings	Dover	14.00	14.50	4.00	5.07	12.00	10.68
Pillsbury's Hard Wheat Standard Middlings	Berlin	15.00	16.94	4.00	5.16	9.50	7.66
Plymouth Citrus Growers Association Plymouth, Florida							
Mayflower Sweetened Dried Citrus Pulp	Pittsfield	6.00	5.58	3.00	3.58	14.00	9.97
Ph. H. Postel Milling Company Mascoutah, Illinois							
Elegant 41% Soybean Oil Meal	Suncook	41.00	46.36	3.50	3.73	7.00	5.44
Quaker Oats Co. Chicago, Illinois							
The Big "Q" Thyro-Active Lactation Stimulant for Dairy Cows	Lebanon	14.00	16.03	3.50	3.90	8.00	7.50
Ful-O-Pep Chick Starter	Lebanon	20.00	19.70	4.00	4.70	7.00	5.80
Ful-O-Pep Crate Fattener Special	Goffstown	12.50	12.38	3.00	2.76	8.00	7.07
Ful-O-Pep 16% Dairy Ration	Lebanon	16.00	16.01	3.50	3.86	11.00	7.67
Ful-O-Pep 20% Dairy Ration	Lebanon	20.00	20.88	3.50	3.96	11.00	7.14
Ful-O-Pep Egg Breeder Mash	Lebanon	20.00	18.00	4.00	4.36	8.00	6.46
Ful-O-Pep Fitting Ration	Laconia	14.00	13.84	3.50	4.02	11.00	8.72
Ful-O-Pep Growing Mash	Lebanon	19.00	20.40	4.00	4.46	8.00	6.75
Ful-O-Pep Laying Mash	Lebanon	20.00	19.42	3.50	3.98	8.00	6.89
Ful-O-Pep Rabbit Pellets	Lebanon	16.00	18.09	2.50	4.08	15.00	10.23
Ful-O-Pep Super Greens	Lebanon	19.00	22.42	4.50	4.67	8.00	6.42
Peterborough Oat Feed	Manchester	3.50	3.85	1.00	1.24	32.50	30.32
Quaker Pig-N-Hog Feed	Lebanon	16.00	17.08	3.50	4.44	9.00	7.16
Quaker 16% Protein Dairy Ration	Lebanon	16.00	17.69	2.50	2.68	12.00	9.94
Quaker 20% Protein Dairy Ration	Lebanon	20.00	22.11	3.00	3.40	12.00	8.97
Quaker Sugared Schumacher Feed	Laconia	12.00	11.24	2.50	2.95	12.00	10.34
Vim Oat Mill Feed	Laconia	3.50	3.80	1.00	1.08	34.00	30.26
Ralston Purina Co., Inc. St. Louis, Missouri							
Northeastern All-In-One Mash	Concord	15.50	16.04	3.00	3.42	9.00	6.44
41% Protein Cottonseed Meal	Lancaster	41.00	41.37	5.00	5.98	13.00	8.35
44% Protein Soybean Oil Meal	Lancaster	44.00	46.40	0.50	0.81	7.00	5.54
Purina B & M Cow Chow with Checkers	Exeter	16.00	16.25	3.50	3.78	10.00	6.94
Purina Breeder Lay Chow (for heavy breeds)	Concord	22.00	22.46	3.00	3.38	8.00	5.22
Purina Breeder Lay Chow Checker-Etts	Concord	20.00	21.50	3.00	3.68	6.00	4.43
Purina Breeder Layena (Complete Ration)	Concord	15.50	17.64	3.00	3.73	6.00	4.55
Purina Broiler Checkers Supplement	Exeter	18.00	19.61	3.00	3.22	6.00	5.58
Purina Broiler Chow	Exeter	18.00	21.67	3.00	3.90	7.00	5.42

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ralston Purina Co., Inc. (Concluded)							
Purina Broiler Chow (Special)	Exeter	18.00	26.27	3.50	3.39	4.00	3.97
Purina Broiler Chow (Special) Checker-Etts	Concord	22.00	24.78	3.50	3.33	4.50	3.80
Purina Bulky Las	Exeter	10.00	11.34	2.00	2.03	15.00	11.84
Purina Calf Startena	Concord	19.50	22.42	2.50	2.28	9.50	7.59
Purina Chick Chow (Fine)	Concord	10.00	8.62	2.00	2.38	4.00	1.44
Purina Chick Growena	Exeter	17.00	18.60	3.00	3.75	7.00	5.30
Purina Chick Growing Chow	Concord	23.00	24.38	2.50	2.99	8.00	6.01
Purina Chick Startena Checker-Etts	Concord	20.00	20.80	3.00	3.37	5.00	3.72
Purina Commercial Lay Chow	Concord	20.00	20.14	3.00	3.22	8.00	4.88
Purina Commercial Layena	Concord	15.50	15.85	3.00	4.17	8.00	5.18
Purina Cow Chow	Exeter	18.00	18.08	3.00	3.12	12.00	7.70
Purina Cow Chow Supplement	Concord	24.00	25.74	2.50	3.22	11.00	6.55
Purina Dry and Freshening Chow	Exeter	12.50	13.53	3.00	2.80	12.00	7.98
Purina Eastern Cow Chow with Checkers	Concord	20.00	20.53	3.00	3.95	12.00	8.14
Purina Flushing Mash	Concord	18.00	20.27	2.50	2.37	6.00	5.42
Purina Goat Chow	Concord	16.00	17.69	3.00	3.60	10.00	6.82
Purina Hog Fatena	Exeter	14.00	15.28	3.00	3.90	8.00	6.10
Purina Lay Chow	Concord	20.00	21.93	3.00	3.35	6.50	4.58
Purina Layena (Complete Ration)	Exeter	15.50	14.30	3.00	3.35	6.00	4.59
Purina Milk Chow	Exeter	16.00	16.77	3.00	3.05	12.00	7.53
Purina Mink Chow	Concord	11.00	14.28	3.00	3.29	6.00	3.68
Purina Poultry Breeder Checkers	Exeter	15.50	18.78	3.00	3.98	8.00	4.53
Purina Rabbit Chow Checkers (Complete Ration)	Concord	20.00	22.42	2.00	2.76	18.00	13.75
Purina Sulfaquinoxaline Mixture for Broilers in Purina Broiler Chow	Concord	18.00	20.27	3.00	3.01	7.00	5.32
Purina Sulfaquinoxaline Mixture for Broilers in Purina Broiler Chow (Special)	Concord	22.00	23.33	3.50	3.64	4.50	4.10
Purina Sulfaquinoxaline Mixture for Starting Chicks in Purina Chick Startena	Concord	20.00	20.66	3.00	2.90	5.00	3.90
Purina Turkey Breederlayena (Complete Ration)	Concord	16.50	17.78	3.50	3.74	8.00	4.77
Purina Turkey Fatena	Exeter	15.50	16.73	3.00	3.62	8.00	5.57
Purina Turkey Growena	Exeter	20.00	21.84	3.00	3.33	7.00	5.30
Purina Turkey Startena	Exeter	24.00	26.66	4.00	4.30	7.00	5.78
John Reardon & Sons Cambridge, Massachusetts							
Register Brand 45% Protein Meat and Bone Scrap	Suncook	45.00	46.64	8.00	10.33	..	..
Register Brand 45% Protein Meat and Bone Scrap	Suncook	45.00	47.63	8.00	8.80	..	..
Rodney Milling Co. Kansas City, Missouri							
Heart of America Pure Wheat Bran	Goffstown	14.50	16.24	3.50	4.05	10.00	9.09

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Schoeneck Farms, Inc. Nazareth, Pennsylvania							
Schoeneck's Super Green Dehydrated Alfalfa Meal	Keene	17.00	17.30	2.00	2.23	27.00	30.09
Allen V. Smith, Inc. Marcellus Falls, New York							
Smith's Barley Feed	Milford	13.00	15.76	2.00	5.23	14.00	11.09
South End Hay and Grain Manchester, New Hampshire							
18% Dairy Feed	Manchester	18.00	18.65	4.00	5.02	10.00	8.34
Feedboard Breeder Mash	Manchester	20.00	20.49	3.00	4.53	7.00	6.30
Feedboard Growing Mash	Manchester	18.00	18.60	3.50	4.62	8.00	6.60
Feedboard Super Starter	Manchester	20.00	20.31	4.00	4.25	4.50	3.48
Southern Cotton Oil Co. Dublin, Georgia							
Sco-Co 41% Protein Cottonseed Meal Prime Quality	Lebanon	41.00	40.33	5.00	6.28	13.00	12.59
F. B. Spaulding Co. Lancaster, New Hampshire							
Miracle Complete Egg Mash	Lancaster	16.00	17.55	3.00	3.61	9.00	6.79
Provender	Lancaster	10.00	10.85	3.50	3.99	9.00	5.14
Spaulding's 20% Dairy Ration	Lancaster	20.00	20.36	3.50	3.56	9.00	6.39
Spaulding & Sons Milford, New Hampshire							
S & S 16% Dairy Ration	Milford	16.00	16.46	3.50	4.23	8.00	6.30
S & S 20% Dairy Ration	Milford	20.00	20.97	3.50	4.46	10.00	8.00
S & S 14% Fitting Ration	Milford	14.00	17.03	3.50	4.43	8.00	6.78
Spaulding's All Mash Breeder	Milford	16.00	16.55	3.50	4.22	7.50	6.10
Spaulding's All Mash Grower	Milford	16.00	15.36	3.50	4.55	7.50	6.36
Spaulding's All Mash Layer	Milford	16.00	14.71	3.50	4.46	7.50	6.00
Spaulding's 20% Grower	Milford	20.00	19.79	3.50	4.06	7.50	7.00
Spaulding's 20% Layer	Milford	20.00	18.94	3.50	4.16	7.50	5.90
Spaulding's 20% Layer and Breeder	Milford	20.00	19.32	3.50	4.21	7.50	5.95
Spaulding's Special Broiler	Milford	20.00	22.81	4.00	3.70	5.00	4.10
Spaulding's Starter-Broiler	Milford	20.00	20.01	3.50	4.40	7.00	5.81
Spaulding's Sulfaquinoxaline Mixture in Spaulding's Starter-Broiler	Milford	20.00	19.53	3.50	4.38	7.00	5.74
Spencer Kellogg & Sons, Inc. Buffalo, New York							
Spencer Kellogg 34% Pro. O. P. Linseed Meal	Keene	34.00	34.24	3.50	4.22	9.00	8.52
A. E. Staley Mfg. Co. Decatur, Illinois							
Staley's Corn Gluten Feed	Hillsboro	23.00	23.55	1.50	2.23	8.00	6.60
Staley's 41% Protein Soybean Oil Meal	Keene	41.00	43.26	3.50	3.72	7.00	6.25

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Standard Milling Co. **Chicago, Illinois**							
Red Turkey Wheat Bran	Colebrook	14.50	16.29	3.50	4.20	11.00	8.95
Stratton & Co. **Penacook, New Hampshire**							
Provender	Lebanon	9.00	10.11	4.00	4.80	10.00	4.64
Stratton & Co.'s Fancy Wheat Bran	Penacook	13.00	13.75	3.50	3.92	11.00	9.10
Stratton & Co.'s Fancy Fine White Middlings	Penacook	14.00	15.50	4.00	4.82	5.00	3.32
Stratton & Co.'s, Wheat Mixed Feed	Penacook	13.50	14.49	4.00	4.31	8.00	7.40
Stratton's Standard Wheat Middlings	Penacook	14.00	15.32	4.00	4.90	8.00	5.26
Stratton's Stock Feed	Salem Depot	7.50	7.62	2.75	4.09	16.00	10.39
Unity Grist Mill **E. Manchester, New Hampshire**							
Unity Grist Mill Breeder Mash	Manchester	20.00	20.18	3.00	4.23	7.00	6.38
Unity Grist Mill Chick Starter	Manchester	20.00	19.86	3.50	4.34	5.00	4.91
Unity Grist Mill 16% Dairy Ration	Manchester	16.00	16.38	3.50	5.51	8.00	6.93
Unity Grist Mill 20% Dairy Ration	Manchester	20.00	21.05	3.50	4.48	10.00	7.70
Unity Grist Mill Fitting Ration	Manchester	14.00	15.76	3.50	4.08	8.00	6.96
Unity Grist Mill Growing Mash	Manchester	18.00	18.65	3.00	4.07	7.00	6.23
Unity Grist Mill Horse Feed	Manchester	11.00	11.60	3.50	3.90	8.00	5.19
Unity Grist Mill Laying Mash	Manchester	18.00	19.22	3.00	4.02	7.00	6.09
Unity Grist Mill Pig and Hog Feed	Manchester	17.00	19.13	4.00	5.48	7.00	6.82
Unity Grist Mill 4-Way Mash	Manchester	15.00	16.50	3.50	4.32	7.00	5.99
Universal Grain Co. of New Jersey **Newark, New Jersey**							
Superior Cow Brand Dried Brewers Grains	Manchester	26.00	24.10	6.00	6.01	17.00	14.56
Wayne County Grangers Feed Corp. **Clyde, New York**							
Superior Fitting Ration	Colebrook	14.00	15.94	3.50	4.70	9.00	7.64
H. K. Webster Co. **Lawrence, Massachusetts**							
Blue Seal All Mash Breeders Ration	Goffstown	15.00	16.16	3.50	4.79	6.50	5.32
Blue Seal All Mash Egg Ration	Laconia	15.00	16.86	3.50	4.68	6.50	5.88
Blue Seal All Mash Growing Ration	Goffstown	15.00	15.33	3.50	4.09	6.50	5.54
Blue Seal Breeders Mash	Goffstown	20.00	21.45	3.50	4.84	7.00	5.76
Blue Seal Calf Grower	Keene	12.00	13.75	3.00	3.73	12.00	10.17
Blue Seal Calf Starter	Nashua	18.00	18.92	4.00	4.66	5.50	4.46
Blue Seal Chick Starter	Laconia	19.00	20.31	3.50	3.93	6.50	5.21
Blue Seal "16" Dairy Ration	Laconia	16.00	17.56	3.50	3.88	9.00	7.86
Blue Seal "20" Dairy Ration	Laconia	20.00	20.66	3.50	4.46	9.00	7.92

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
H. K. Webster Co. (Concluded)							
Blue Seal Egg Mash	Pittsfield	20.00	20.27	3.50	4.33	7.00	6.29
Blue Seal Fitting Ration	Laconia	14.00	15.02	3.50	4.21	9.00	7.48
Blue Seal Growing Mash	Goffstown	18.00	20.10	3.50	4.23	7.00	6.48
Blue Seal Horse Feed	Laconia	10.00	11.16	3.00	3.32	9.00	6.10
Blue Seal Pig Feed	Laconia	15.00	15.90	3.00	4.67	6.00	5.33
Blue Seal Rabbit Pellets	Keene	14.00	14.05	3.00	3.78	11.00	7.83
Blue Seal Stock Feed	Laconia	8.50	10.68	3.00	4.00	17.00	10.40
Blue Seal Succulent Feed	Nashua	10.00	12.56	1.50	2.40	18.00	15.00
Blue Seal Super Mash	Pittsfield	20.00	20.80	4.00	4.82	4.00	3.22
Blue Seal Super Starter and Broiler	Goffstown	20.00	21.36	4.00	4.38	4.00	3.62
Sulfaquinoxaline Inc., in Blue Seal Super Starter and Broiler	Goffstown	20.00	21.84	4.00	4.60	4.00	3.52
Whitmoyer Laboratories, Inc. Myerstown, Pennsylvania							
Clo-Meal	Suncook	38.00	44.96	10.00	20.64	3.75	2.22
Gro-Tein	Keene	45.00	55.38	4.00	14.52	5.50	1.59
Whitmoyer Quality Fish Meal	Suncook	58.00	60.85	7.00	12.23	3.00	0.50

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